

~~58.~~ (Amended) An isolated antibody, or fragment thereof, specifically immunoreactive with a p16 protein that specifically binds to a cyclin-dependant kinase.

~~59.~~ (Amended) The antibody of claim 58, wherein the antibody is specifically immunoreactive with a cell cycle regulatory (CCR) protein which is encoded by a nucleic acid that hybridizes at conditions of 2.0 x SSC at 50 °C or higher stringency to a nucleotide sequence of SEQ ID No: 1.

~~60.~~ (Amended) The antibody of claim 58, wherein the p16 protein has an amino acid sequence of SEQ ID No: 2.

~~61.~~ (Reiterated) The antibody of any one of claims 58, 59 or 60, wherein the antibody is a monoclonal antibody.

~~62.~~ (Reiterated) The antibody of any one of claims 58, 59 or 60, wherein the antibody is a Fab fragment.

~~63.~~ (Reiterated) The antibody of any one of claims 58, 59 or 60, wherein the antibody is a F(ab')<sub>2</sub> fragment.

~~64.~~ (Reiterated) The antibody of claim 58, wherein the antibody is labeled with a detectable label.

~~65.~~ (Twice Amended) A purified preparation of a polyclonal antibody, or fragment thereof, specifically immunoreactive with a p16 protein of SEQ ID No. 2.

~~66.~~ (Twice Amended) A purified preparation of a polyclonal antibody, or fragment thereof, specifically immunoreactive with a p16 protein encoded by a nucleic acid that hybridizes at conditions of 2.0 x SSC at 50 °C or higher stringency to a nucleotide sequence of SEQ ID No. 1.

~~67.~~ (Amended) The preparation of claim 66, wherein the p16 protein has an amino acid sequence of SEQ ID No: 2.

*H 78*  
68. (Amended) A kit for detecting a cell cycle regulatory (CCR) protein comprising (i) an isolated anti-CCR antibody, or fragment thereof, specifically immunoreactive with a p16 protein, and (ii) a detectable label for detecting the anti-CCR antibody in immunocomplexes with a cell cycle regulatory (CCR) protein.

*N.E.  
Duplicate*  
69. (Reiterated) The kit of claim 68, wherein means for detecting the anti-CCR antibody is a detectable label conjugated with the anti-CCR antibody.

*H 70*  
70. (Reiterated) The kit of claim 68, wherein means for detecting the anti-CCR antibody is a second antibody immunoreactive with the anti-CCR antibody.

*H 71*  
71. (Amended) The kit of claim 68, wherein the p16 protein has an amino acid sequence of SEQ ID No. 2.

*H 72*  
72. (Reiterated) The kit of claim 68, wherein the antibody is a monoclonal antibody.

*N.E.  
Duplicate*  
73. (Reiterated) The kit of claim 69, wherein the antibody is a purified preparation of polyclonal antibodies.

*H 74*  
74. (Amended) The kit of claim 68, wherein the antibody is a Fab fragment.

*N.E.  
Duplicate*  
75. (Reiterated) The kit of claim 68, wherein the antibody is a F(ab')<sub>2</sub> fragment.

*H 76*  
76. (Amended) The kit of claim 68, wherein the antibody is provided in a form suitable for detecting the cell cycle regulatory (CCR) protein in samples in cells.

*H 77*  
77. (Amended) The preparation of claim 11, wherein the p16 protein is identical to SEQ ID No. 2.

Please add the following new claims:

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79. (New) The antibody of claim 58, wherein the p16 protein is a human protein.
80. (New) The preparation of claim 66, wherein the p16 protein is a human protein.
81. (New) The preparation of claim 11, wherein the p16 protein is a human protein.
82. (New) The kit of claim 68, wherein the p16 protein is a human protein.

*The claims presented above incorporate changes as indicated by the marked-up versions below.*

11. (Twice Amended) An antibody preparation specifically reactive with [an epitope of an immunogen comprising a substantially pure preparation of] a [cell regulatory (CCR)] p16 protein [or a fragment thereof which] that specifically binds to a cyclin-dependent kinase (CDK).[, the full length form of said CCR-protein having an approximate molecular weight in the range of 14.5kD to 16kD, in an immunogenic preparation, said immunogen being capable of eliciting and immune response specific for said CCR-protein]

58. (Amended) An isolated antibody, or fragment thereof, specifically immunoreactive with a [cell cycle regulatory (CCR)] p16 protein[, wherein said protein comprises at least four ankyrin-repeats and] that specifically binds to a cyclin-dependant kinase.

59. (Amended) The antibody of claim 58, wherein the antibody is specifically immunoreactive with a cell cycle regulatory (CCR) protein which is encoded by a nucleic acid [wherein said nucleic acid] that hybridizes at conditions of 2.0 x SSC at 50 °C or higher stringency to a nucleotide sequence of SEQ ID No[s]: 1[, 3, or 5].

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60. (Amended) The antibody of claim 58, wherein the [antibody is specifically immunoreactive with an cell cycle regulatory (CCR) protein comprising] p16 protein has an amino acid sequence of SEQ ID No[s]: 2[, 4, or 6].

61. (Reiterated) The antibody of any one of claims 58, 59 or 60, wherein the antibody is a monoclonal antibody.
62. (Reiterated) The antibody of any one of claims 58, 59 or 60, wherein the antibody is a Fab fragment.
63. (Reiterated) The antibody of any one of claims 58, 59 or 60, wherein the antibody is a F(ab')<sub>2</sub> fragment.
64. (Reiterated) The antibody of claim 58, wherein the antibody is labeled with a detectable label.
65. (Twice Amended) A purified preparation of a polyclonal antibody [antibodies], or fragment[s] thereof, specifically immunoreactive with a [cell cycle regulatory (CCR)] p16 protein [at least 80% identical to any one] of SEQ ID No[s]. 2[, 4, or 6].
66. (Twice Amended) A purified preparation of a polyclonal antibody [antibodies], or fragment[s] thereof, specifically immunoreactive with a [cell cycle regulatory (CCR)] p16 protein[, wherein the antibody is specifically immunoreactive with a cell cycle regulatory (CCR) protein which is] encoded by a nucleic acid [wherein said nucleic acid] that hybridizes at conditions of 2.0 x SSC at 50 °C or higher stringency to a nucleotide sequence of SEQ ID No[s]. 1[, 3, or 5].
67. (Amended) The preparation of claim 66, wherein the [antibody is specifically immunoreactive with cell cycle regulatory (CCR)] p16 protein [comprising] has an amino acid sequence of SEQ ID No[s]: 2[, 4, or 6].
68. (Amended) A kit for detecting a cell cycle regulatory (CCR) protein comprising (i) an isolated anti-CCR antibody, or fragment thereof, specifically immunoreactive with a [cell cycle regulatory (CCR)] p16 protein, and (ii) a detectable label for detecting the anti-CCR antibody in immunocomplexes with a cell cycle regulatory (CCR) protein.